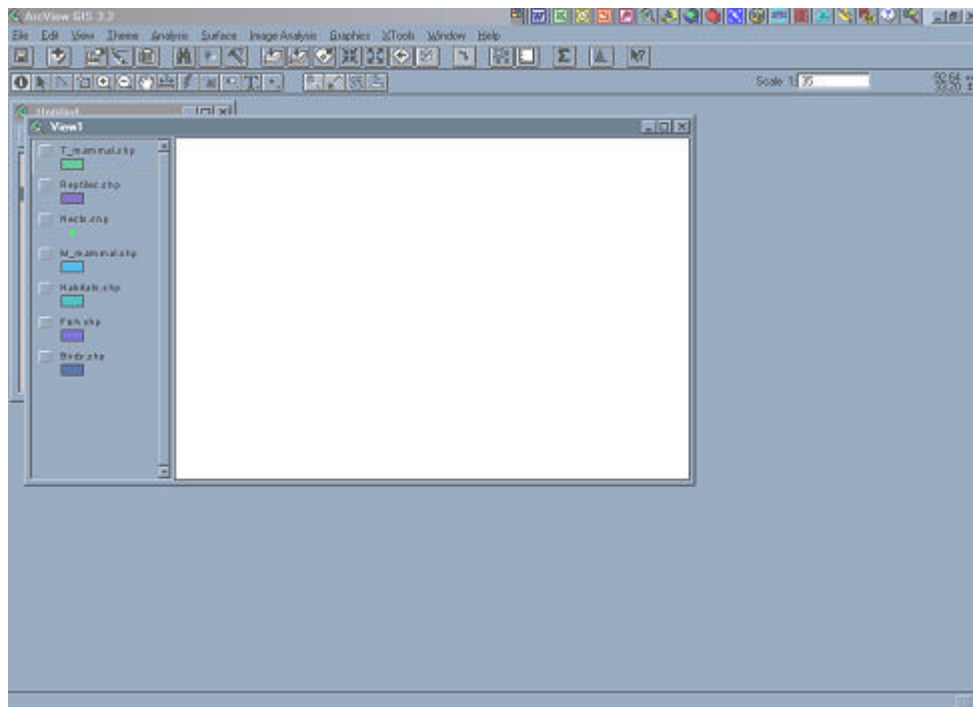


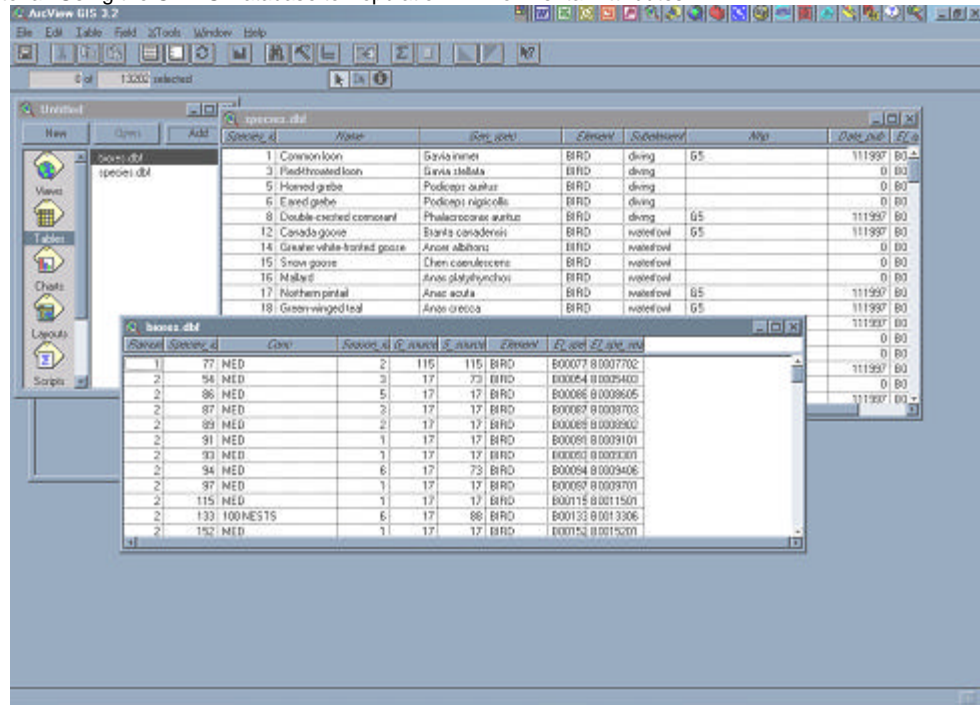
The Gulf-Wide Information System (G-WIS) CD came with various shapefiles and a database. Included was an Adobe Acrobat [G-WIS Database Entity Relationship Diagram](#). Through the G-WIS Database Entity Relationship Diagram the series of tables needed to complete the species database was developed. Following the G-WIS Database Entity Relationship Diagram the Birds table was joined to the Biores table using the RARNUM column, in ArcView 3.2.

1. Add Birds, Fish, Habitats, M_Mammal, Nest, Reptiles and T_Mammals shapefiles to View.

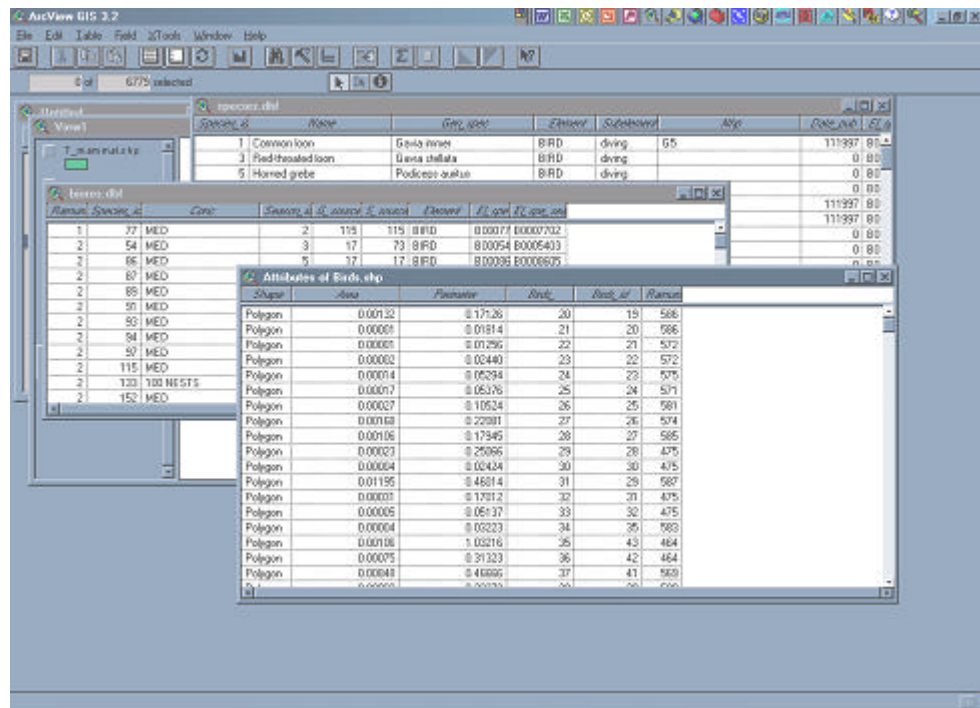


2. Add Biores and Species tables to project.

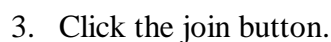
Formatting Data Tutorial: Using the G-WIS Database to Population Environmental Attributes



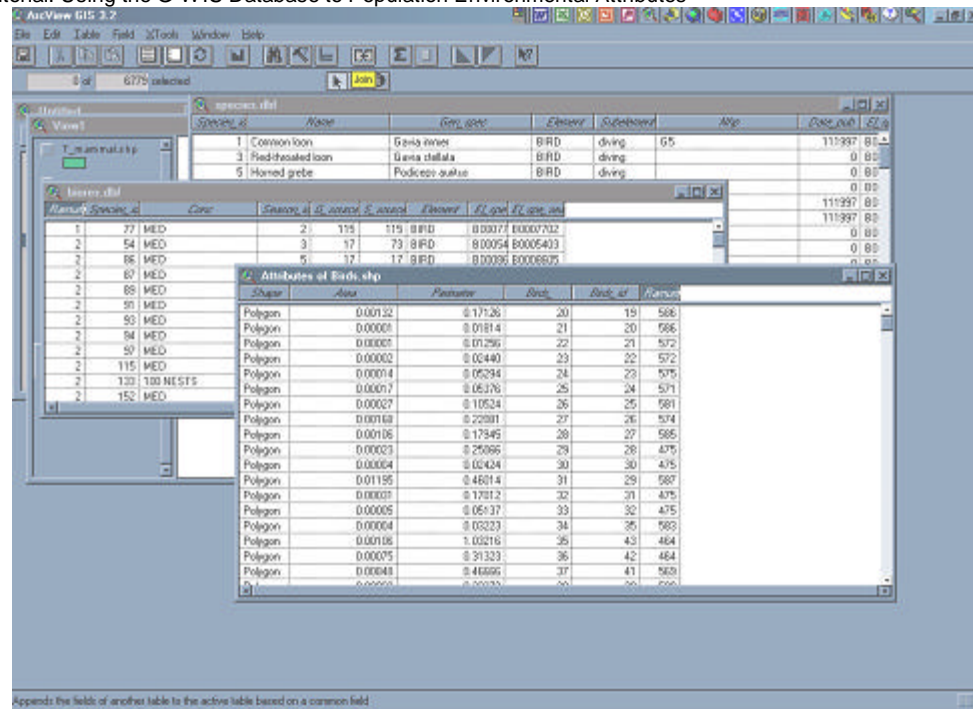
3. Open Birds attribute table.



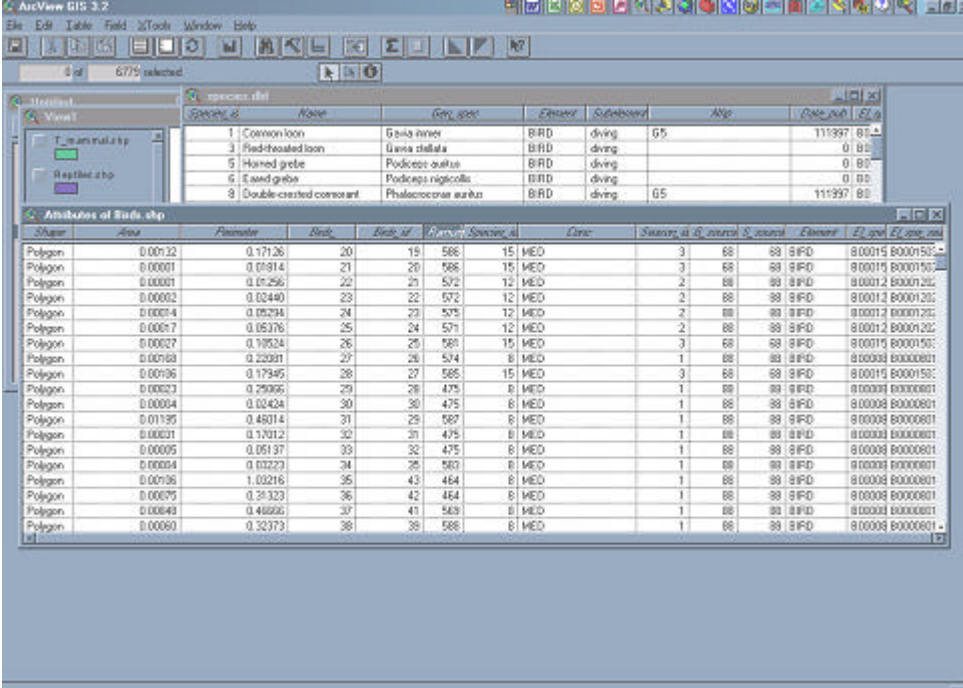
1. First click on the RARNUM column in the Biores table.



Formatting Data Tutorial: Using the G-WIS Database to Population Environmental Attributes



4. The new table should look like this.



Shape	Area	Perimeter	Rock	Rock_id	EL	Species	EL_spe
Polygon	0.00122	0.17126	20	15	586	15 MED	800015 8000150
Polygon	0.00001	0.01814	21	20	586	15 MED	800015 8000150
Polygon	0.00001	0.01256	22	21	572	12 MED	800012 8000120
Polygon	0.00002	0.02440	23	22	572	12 MED	800012 8000120
Polygon	0.00014	0.05294	24	23	575	12 MED	800012 8000120
Polygon	0.00017	0.05176	25	24	571	12 MED	800012 8000120
Polygon	0.00027	0.10524	26	25	581	15 MED	800015 8000150
Polygon	0.00168	0.22081	27	26	574	8 MED	800008 8000080
Polygon	0.00196	0.17345	28	27	585	15 MED	800015 8000150
Polygon	0.00023	0.25066	29	28	475	8 MED	800008 8000080
Polygon	0.00004	0.04204	30	30	475	8 MED	800008 8000080
Polygon	0.01195	0.46014	31	29	587	8 MED	800008 8000080
Polygon	0.00003	0.17012	32	31	475	8 MED	800008 8000080
Polygon	0.00005	0.05137	33	32	475	8 MED	800008 8000080
Polygon	0.00004	0.03223	34	35	583	8 MED	800008 8000080
Polygon	0.00106	1.03216	35	43	464	8 MED	800008 8000080
Polygon	0.00075	0.31323	36	42	464	8 MED	800008 8000080
Polygon	0.00048	0.46686	37	41	563	8 MED	800008 8000080
Polygon	0.00060	0.32373	38	38	588	8 MED	800008 8000080

5. Click on the EL_SPE column in the Species table.



Formatting Data Tutorial: Using the G-WIS Database to Population Environmental Attributes

ArcView GIS 3.2a

File Edit Table Field XTools Window Help

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Unread

New Open Add

Attributes of Species.dbl
Species.dbl

Species	Name	Genus	Species	Subspecies	Pop	Date	EC
1	Common loon	Gavia immer	BPID	diving	GS	111567	EC
3	Red-throated loon	Gavia stellata	BPID	diving			EC
5	Hooded grebe	Podiceps auritus	BPID	diving			EC
6	Lined grebe	Podiceps nigricollis	BPID	diving			EC
8	Double-crested cormorant	Phalacrocorax auritus	BPID	diving	GS	111567	EC
12	Canada goose	Branta canadensis	BPID	waterfowl	GS	111567	EC
14	Greater white-fronted goose	Anser albifrons	BPID	waterfowl			EC

Attributes of Birds.shp

Shape	Area	Perimeter	Pop	Pop of	Random	Species	Genus	Species	S. genus	Subspecies	EC	EC	EC	EC
Polygon	0.00132	0.17126	20	15	566	15	MED		3	68	88	BPID	8000150	8000150
Polygon	0.00001	0.01814	21	20	566	15	MED		3	68	88	BPID	8000150	8000150
Polygon	0.00001	0.01256	22	21	572	12	MED		2	68	88	BPID	8000120	8000120
Polygon	0.00002	0.02480	23	22	572	12	MED		2	68	88	BPID	8000120	8000120
Polygon	0.00014	0.05294	24	23	575	12	MED		2	68	88	BPID	8000120	8000120
Polygon	0.00017	0.05376	25	24	571	12	MED		2	68	88	BPID	8000120	8000120
Polygon	0.00027	0.10624	26	25	580	15	MED		3	68	88	BPID	8000150	8000150
Polygon	0.00059	0.22091	27	26	574	8	MED		1	68	88	BPID	8000080	8000080
Polygon	0.00036	0.17945	28	27	585	15	MED		3	68	88	BPID	8000150	8000150
Polygon	0.00023	0.25066	29	28	475	8	MED		1	68	88	BPID	8000080	8000080
Polygon	0.00004	0.02424	30	29	475	8	MED		1	68	88	BPID	8000080	8000080
Polygon	0.01795	0.46014	31	30	580	8	MED		1	68	88	BPID	8000080	8000080
Polygon	0.00031	0.17012	32	31	475	8	MED		1	68	88	BPID	8000080	8000080
Polygon	0.00005	0.05137	33	32	475	8	MED		1	68	88	BPID	8000080	8000080
Polygon	0.00004	0.02223	34	33	583	8	MED		1	68	88	BPID	8000080	8000080
Polygon	0.00036	1.03216	35	43	464	8	MED		1	68	88	BPID	8000080	8000080
Polygon	0.00075	0.20323	36	42	464	8	MED		1	68	88	BPID	8000080	8000080
Polygon	0.00049	0.49966	37	41	569	8	MED		1	68	88	BPID	8000080	8000080
Polygon	0.00050	0.32373	38	39	568	8	MED		1	68	88	BPID	8000080	8000080

Append the fields of another table to the active table based on a common field

8. The new table should look like this.

ArcView GIS 3.2a

File Edit Table Field XTools Window Help

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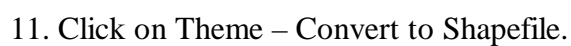
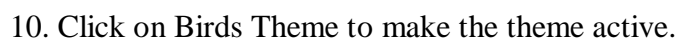
Unread

New Open Add

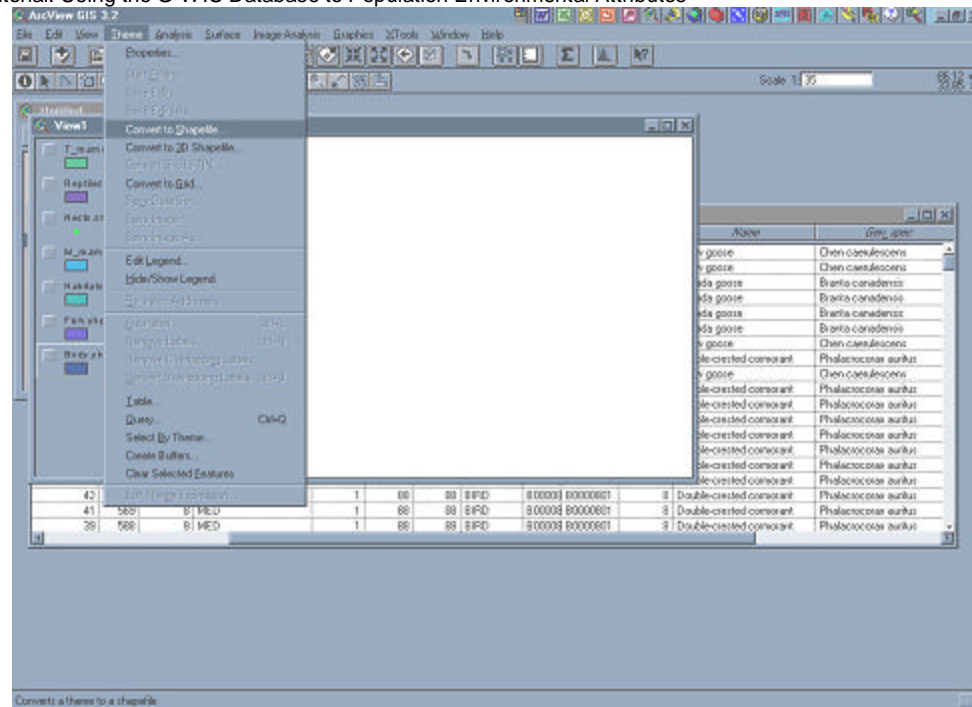
Attributes of Birds.shp
Species.dbl

Pop	Pop of	Random	Species	Genus	Species	S. genus	Subspecies	EC	EC	EC	EC	EC	EC	EC
15	566	15	MED		3	68	88	BPID	8000150	8000150	15	Snow goose	Oen caerulescens	Oen caerulescens
20	566	15	MED		3	68	88	BPID	8000150	8000150	15	Snow goose	Oen caerulescens	Oen caerulescens
21	572	12	MED		2	68	88	BPID	8000120	8000120	12	Canada goose	Branta canadensis	Branta canadensis
22	572	12	MED		2	68	88	BPID	8000120	8000120	12	Canada goose	Branta canadensis	Branta canadensis
23	575	12	MED		2	68	88	BPID	8000120	8000120	12	Canada goose	Branta canadensis	Branta canadensis
24	571	12	MED		2	68	88	BPID	8000120	8000120	12	Canada goose	Branta canadensis	Branta canadensis
25	580	15	MED		3	68	88	BPID	8000150	8000150	15	Snow goose	Oen caerulescens	Oen caerulescens
26	574	8	MED		1	68	88	BPID	8000080	8000080	8	Double-crested cormorant	Phalacrocorax auritus	Phalacrocorax auritus
27	565	15	MED		3	68	88	BPID	8000150	8000150	15	Snow goose	Oen caerulescens	Oen caerulescens
28	475	8	MED		1	68	88	BPID	8000080	8000080	8	Double-crested cormorant	Phalacrocorax auritus	Phalacrocorax auritus
30	475	8	MED		1	68	88	BPID	8000080	8000080	8	Double-crested cormorant	Phalacrocorax auritus	Phalacrocorax auritus
29	580	8	MED		1	68	88	BPID	8000080	8000080	8	Double-crested cormorant	Phalacrocorax auritus	Phalacrocorax auritus
31	475	8	MED		1	68	88	BPID	8000080	8000080	8	Double-crested cormorant	Phalacrocorax auritus	Phalacrocorax auritus
32	475	8	MED		1	68	88	BPID	8000080	8000080	8	Double-crested cormorant	Phalacrocorax auritus	Phalacrocorax auritus
35	583	8	MED		1	68	88	BPID	8000080	8000080	8	Double-crested cormorant	Phalacrocorax auritus	Phalacrocorax auritus
43	464	8	MED		1	68	88	BPID	8000080	8000080	8	Double-crested cormorant	Phalacrocorax auritus	Phalacrocorax auritus
42	464	8	MED		1	68	88	BPID	8000080	8000080	8	Double-crested cormorant	Phalacrocorax auritus	Phalacrocorax auritus
41	569	8	MED		1	68	88	BPID	8000080	8000080	8	Double-crested cormorant	Phalacrocorax auritus	Phalacrocorax auritus
39	568	8	MED		1	68	88	BPID	8000080	8000080	8	Double-crested cormorant	Phalacrocorax auritus	Phalacrocorax auritus

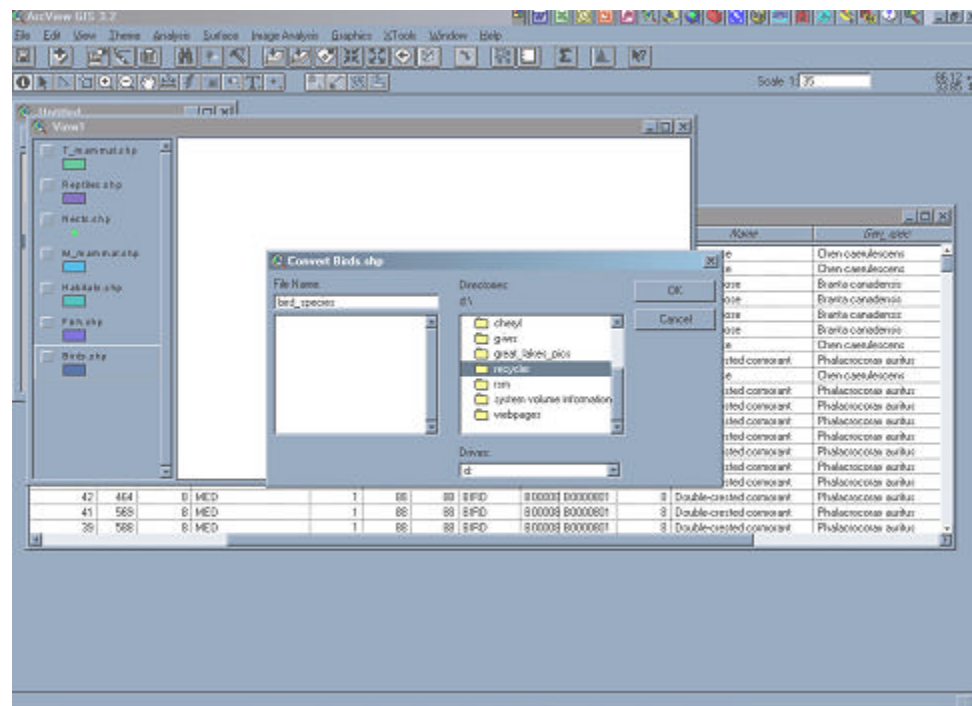
9. Make the View active.



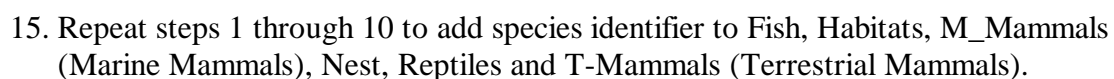
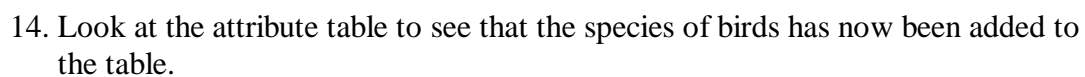
Formatting Data Tutorial: Using the G-WIS Database to Population Environmental Attributes



12. Change the name and save in desired location.



13. Add the new theme to the view.



 Delete any columns that are not needed.